PLC Splitter

General

Planar Lightwave Circuit (PLC splitter) splitter is a type of optical power management device that is fabricated using silica optical waveguide technology. It features small size, high reliability, wide operating wavelength range and good channel-to-channel uniformity, and is widely used in PON networks to realize optical signal power splitting. We provide whole series of 1xN and 2xN splitter products that are tailored for specific applications.

Features

- Made of high quality steel sheet
- Modularized design
- Convenient for installation and maintenance
- Low Insertion loss and PDL
- High return loss (P/S Grade: 55/50 dB)
- Directivity 55 dB
- Compact Design
- Cable diameter 0.9mm & 2.8mm
- Wide Operating Wavelength: From 1260nm to 1650nm
- Wide Operating Temperature: From -40°C to 85°C
- 1 & 2 input channel, and 4, 8, 16, 32 and 64 channel available
- High Reliability and Stability
- Telcordia GR-1209-CORE-2001 compliant
- Telcordia GR-1221-CORE-1999 compliant
- RoHS compliant

Applications

FTTX Systems
PON/GPON/EON Networks
CATV Links
Optical Signal Distribution

PLC Splitter

Item		unit	Specifications							
			1x2	1x4	1x8	1X12	1x16	1X24	1x32	1X64
Insertion Loss @1,310/1,550nm		dB	≤3.9	≤ 7.2	≤ 10.5	≤ 13	≤ 13.8	≤ 16.2	≤ 17.0	≤ 20.6
Uniformity @1,310/1,550nm		dB	≤ 0.4	≤ 0.5	≤ 1.0	≤ 1.0	≤ 1.4	≤ 1.5	≤ 1.5	≤ 1.8
PDL @1,310/1,550nm		dB	≤ 0.25	≤ 0.25	≤ 0.25	≤ 0.25	≤ 0.25	≤ 0.3	≤ 0.30	≤ 0.30
Return Loss @1,310/1,550nm		dB	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55
Directivity @1,310/1,550nm		dB	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55	≥ 55
Operating Wavelength		nm	1260 ~ 1650							
Operating Temperature		℃	-40 ~ +85							
Fiber Length		mm	750±100 / 1,200 ± 100 / 1,500± 100							
Output Fiber Configurations	TYPE		0.25 Coated fiber , 0.9mm , 2.8mm							
			2-fiber x 1	4-fiber x 1	4-fiber x 2	6-fiber x 2	8-fiber x 2	6-fiber x 4	8-fiber x 4	8-fiber x 8

Packing

The PLC splitter modules shall be packed into a suitable case in order to prevent a damage during transportation and storage. Each item shall be covered with protective materials to prevent scratching or damages during shipping or storage.